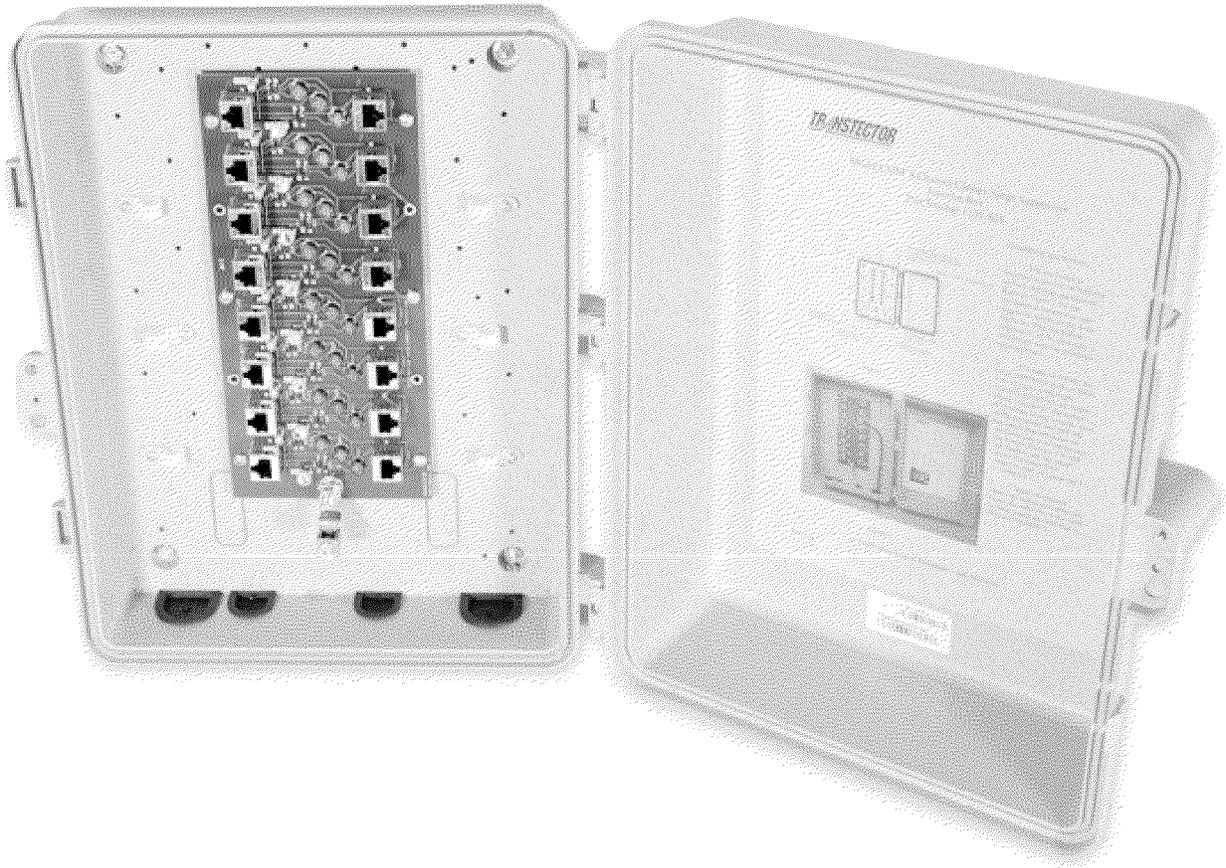


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REVISIONS				
LTR	DESCRIPTION	ECN	DATE	APPROVED
B	CHANGE PICTURE ON COVER PAGE WITH PHOTO	6225	6/20/06	JDW
C	REMOVE ITAR STATEMENT	6750	4/19/07	DLR
D	INCREASE PROTECTION LEVELS	7645	10/13/08	MLH



DRAWN	MLH	DATE	5/18/06
CHECKED	SG		5/25/06
ENGRG APPD	MLH		5/25/06
PROJ APPD	JN		5/25/06
APPROVED			



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TITLE

CMM3 8 WAY OUT DOOR PROTECTOR SPECIFICATION

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**SURGE SUPPRESSOR Model: CMM3 8 WAY OUT DOOR PROTECTOR
MODEL NUMBER 1101-805**

1. **GENERAL DESCRIPTION:** The CMM3 is designed to protect the Power Over Ethernet (POE) communications lines for Motorola Canopy Radio System arrays. The communications circuits plug into the CMM3 in series through shielded RJ45 connectors arranged in horizontal pairs, stacked vertically on the protection assembly. This robust protection assembly is housed inside a non-metallic enclosure with bottom fed grommet ports for easy wiring and installation. Each of the eight (8) individual POE protection circuits are protected relative to the internal ground terminal. For optimum protection, the internal Ground Terminal must be connected to the most effective (lowest impedance) earth ground available. The unit is provided with a powder coated metal back panel for ease of installation and mounting.

2. **ELECTRICAL SERVICE:**
 - 2.1. **Transfer Rate** CAT 5, 10/100Mb/s
 - 2.2. **Maximum Continuous Operating Voltage** 90VDC
 - 2.3. **Connector Style** RJ-45, Metal Shielded Jack
 - 2.4. **Protected RJ-45 Pins** Lines 1-2; 3-6; 4,5-7,8; All pins to GND

3. **ELECTRICAL PERFORMANCE:**
 - 3.1 **Turn-on Voltage**..... 130VDC
 - 3.2 **Peak Surge Capability**
 - 3.2.1 IEEE C62.41 8/20us Lightning..... 800A
 - 3.2.2 Telcordia GR-1089-CORE..... 10/1000us..... 200A

- 4 **MECHANICAL:**
 - 4.1 **Enclosure Description:** The suppressor is housed in a sealed PVC enclosure and mounted to a powder coated metal panel with overall dimensions of 17" tall (43cm), 11" wide (28cm) and 6" deep (15cm). The door opens from the right side and requires a full 12" clearance to open properly. The PVC enclosure has a UL 1863 Flame Retardant rating. See Illustration 1.
 - 4.2 **Weight:** 7 lb (3.2kg)

- 5 **ENVIRONMENTAL:**
 - 5.1 **Operating Temperature:** -20°C to +65°C
 - 5.2 **Storage Temperature:** -20°C to +65°C
 - 5.3 **Relative Humidity:** 90%

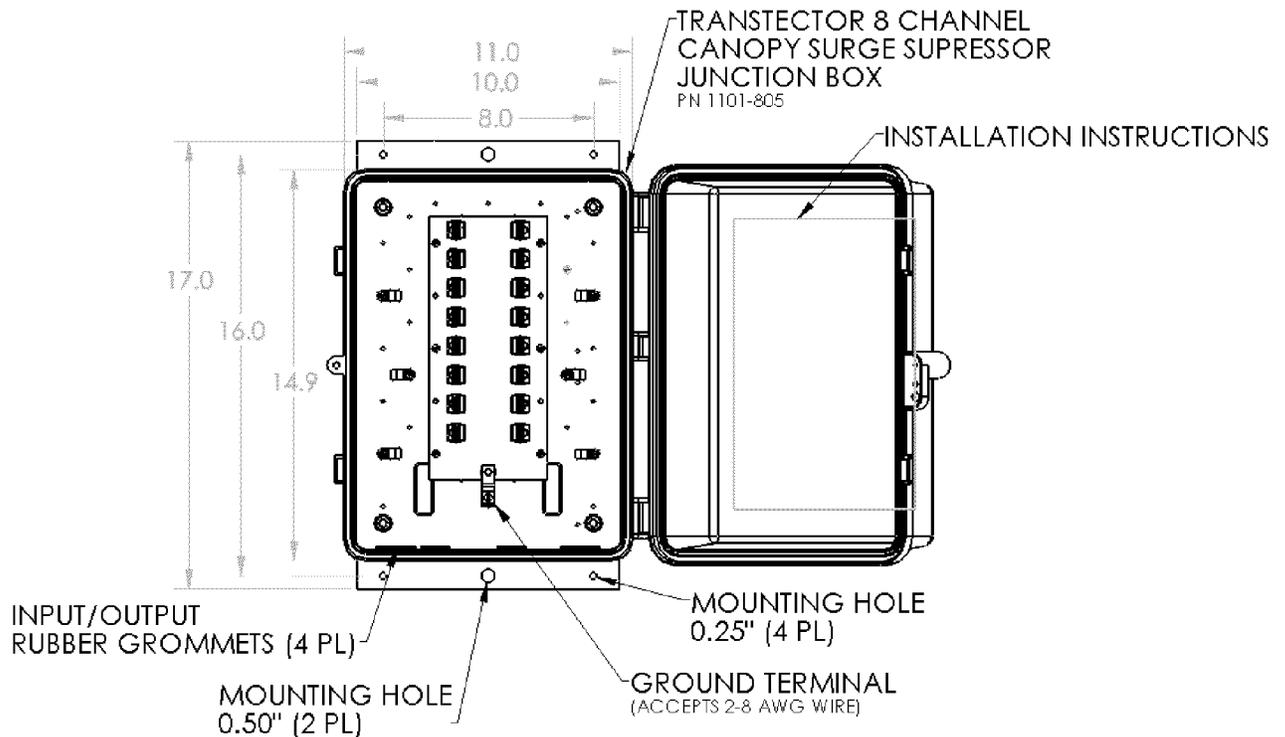


Illustration 1 – Mechanical Dimensions and Layout

6 INSTALLATION INSTRUCTIONS:

The enclosure is designed to mount on both flat surface and pole applications. Refer to Illustration 1 for the mechanical dimensions and suggested hardware for both methods. Note the bottom orientation of the enclosure is referenced with the grommet opening down.

For ease of wiring, the surge suppressor protects each wire of each of the eight channels effectively no matter which “direction” the cables are installed. Create a narrow slice on the grommet and pull the Individual data cables into the enclosure one at a time through the bottom. Note each in-and out channel pair and install across horizontal RJ45 connector pair, i.e. connector 1 to connector 2.

When all required cables are pulled and connected secure the cable sets to the cable tie rings within the enclosure.